

1. Solve the equation for x . The solution shows the number of barrels of buried pirate gold found on Crusoe Island in 2005.

$$20x - 300 - 7x + 500 = 8000$$

2. Evaluate x^5 for $x = 2$.

3.

3. When a ship was sinking, some sailors threw a valuable treasure chest overboard. The deck of the ship was 46 feet above the water's surface. The chest sank to a depth of 387 feet (-387).

Write and solve a subtraction equation to find the difference between the two locations.

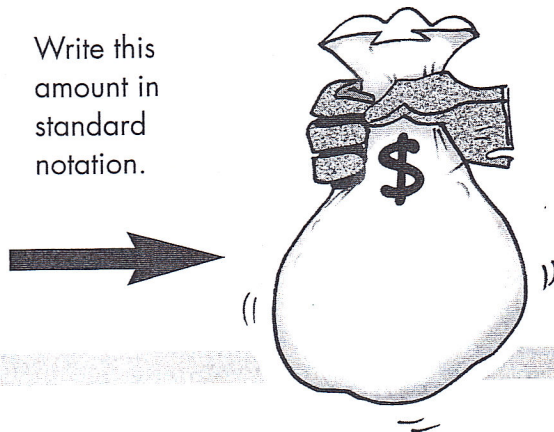
4. Write this expression in words:

$$18 \cdot (a - b)$$

5. Back in 1882, a blacksmith from a wild west Arizona town robbed stagecoaches in his spare time. He hid a large sum of money that was never found. The dollar amount is believed to be

$$6.9 \times 10^4$$

Write this amount in standard notation.



1. Which sentence does NOT show an inequality?
- a plus b is approximately equal to c plus b .
 - The product of a and b is equal to half of d .
 - The difference between n and m is equal to or greater than four p .

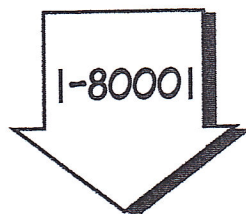
2. Solve for b if $a = -4$.

$$a - 6 - b = -15$$

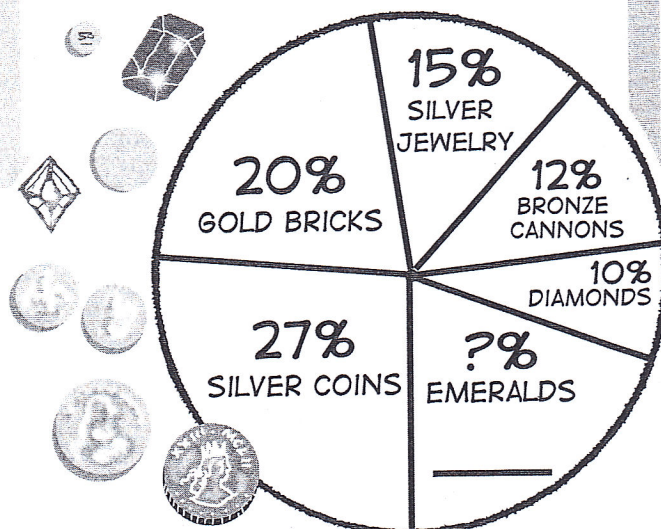
3. Which is greater?

$$4\sqrt{16} \quad \text{OR} \quad 3\sqrt{25}$$

4. The number represented shows the location (in feet) of treasure found from the 1869 sunken ship, the Abbatucci. What is the absolute value of the number?

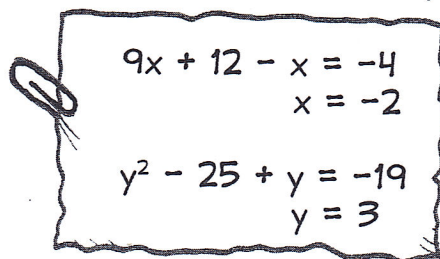


5. Examine the graph that shows the kinds of treasures recovered from a sunken ship. What percent of the total value came from the emeralds?



Name _____

1. Which equation is solved correctly?



$$\begin{aligned} 9x + 12 - x &= -4 \\ x &= -2 \end{aligned}$$

$$\begin{aligned} y^2 - 25 + y &= -19 \\ y &= 3 \end{aligned}$$

5. In 1622, a fleet of Spanish ships was lost near Cuba. In 1986, treasure hunters recovered one million dollars worth of gold and silver from the sunken ships in four days. Assuming that they could continue to find treasure at that same rate, how much could be found in a full week (in dollar value)?

2. Do the two versions of the expression match?

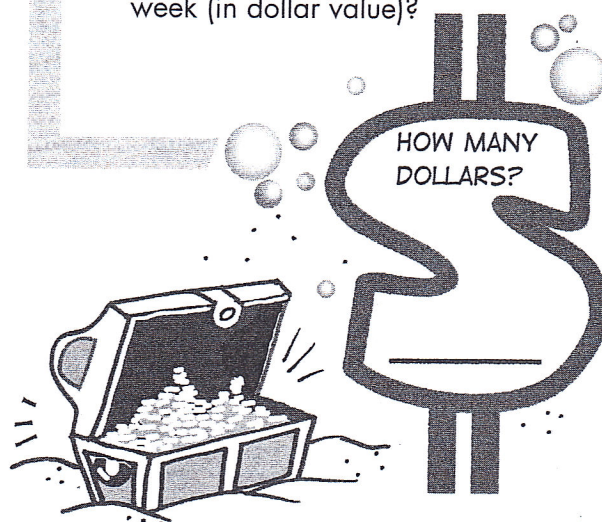
six times the sum of negative twelve and another number subtracted from fifty

$$50 - 6(-12 + x)$$

3. Simplify: d^3d^5

4. What operation should be done first when finding this solution?

$$\sqrt{64 + 92} - (12 + 8) =$$



Name _____

1. Old stories claim that a large sum of money was supposedly stashed long ago near Bumble Bee, Arizona. The rumored amount of this treasure is a number that is \$45 thousand less than one-eighth of a million dollars. What is the amount?

2. Name the two square roots of 25.



3. Evaluate if $a = -4$ and $b = 3$.

$$6a + b + 8b$$

4. Write three different possible solutions:

$$2x \leq 15$$

A	B	C
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5. Write T (true) or F (false) for each statement.

- ___ Zero has no square roots.
- ___ Every positive number has exactly two real square roots.
- ___ Every negative number has no real square roots.
- ___ The number 200 has a whole number square root.
- ___ The number ONE has no square roots.
- ___ The radicand in the following is 9.

$$\sqrt{81}$$

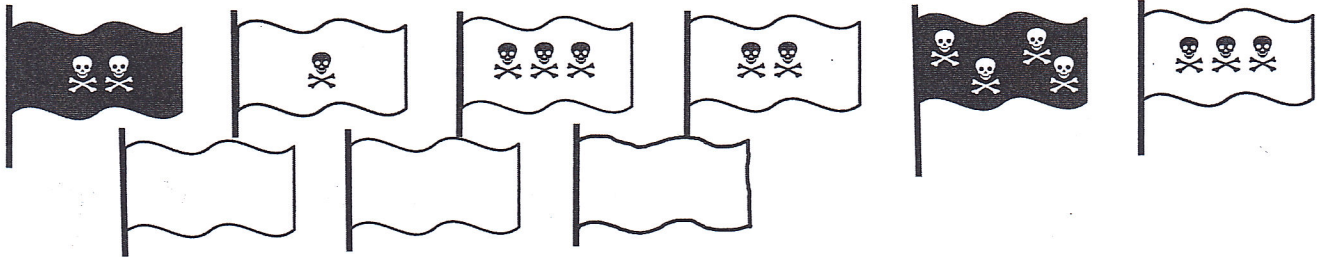
Name _____

1. Solve: $\frac{2x}{3} = 12$

2. Which property is demonstrated?

$$4x(x + 12) = 4x^2 + 48x$$

3. Complete the next three flags.

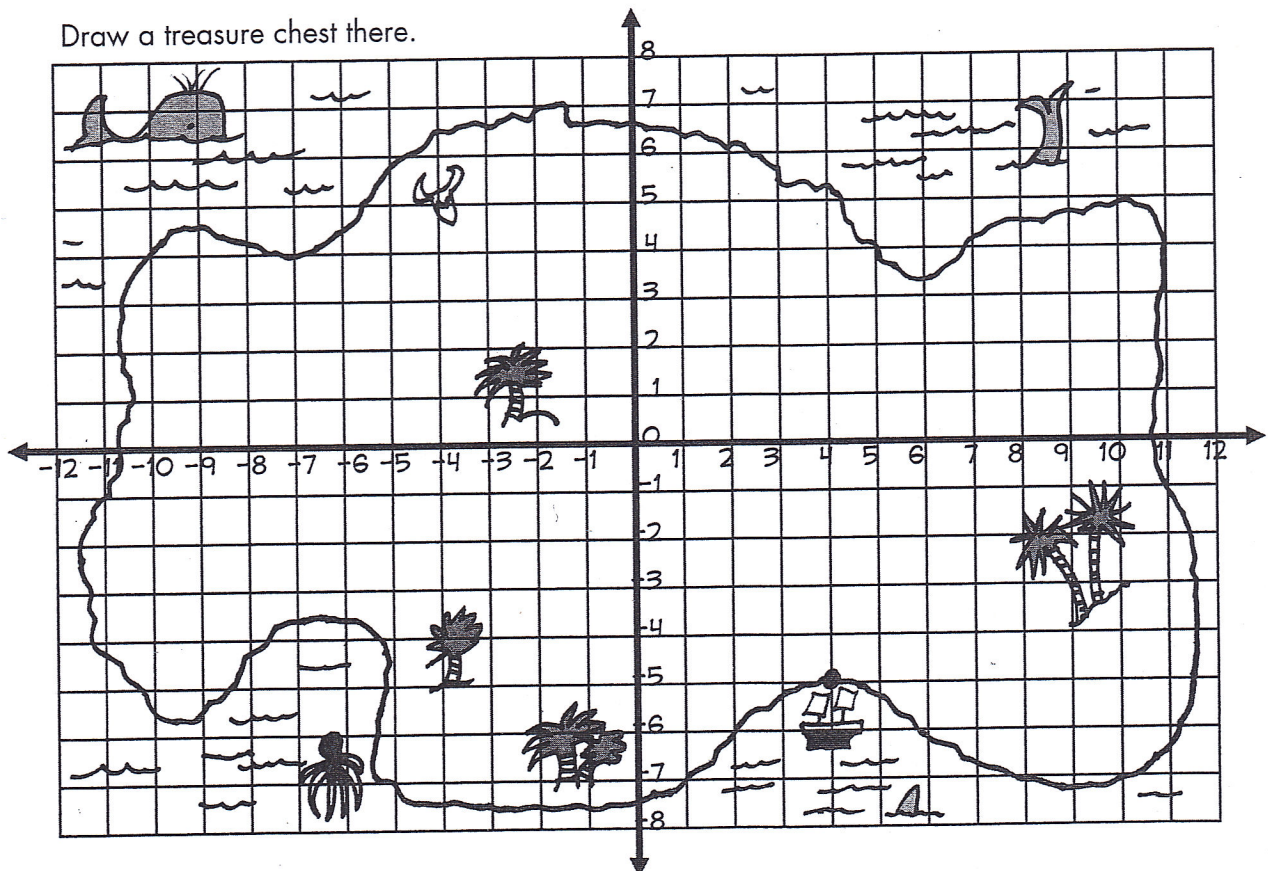


4. Bank robber John Dillinger supposedly buried \$200,000 in a Wisconsin field in 1933. Four friends searching for the treasure agreed to split it this way: Zach would get $\frac{1}{5}$ of the total. Rhonda would get $\frac{1}{4}$ of what remained after Zach got his share. Sue and Damian would share the rest. If they find the treasure, how much will Sue's share be?

5. Challenge Problem

A treasure hunter lands at point A on the island. He hikes to each of the locations shown by the coordinates (below) and digs for treasure at each spot. Draw his trail from one point to the next, in the order given. Draw an **X** each place he digs. He finds the treasure at the last location.

Draw a treasure chest there.



(4, -2); (0, -4); (-4, -5); (0, -2); (2, 4); (-9, 2); (-9, -3); (0, 0); (8, 0); (10, 2); (10, -5); (7, -3)